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(12) **DEMANDE DE BREVET CANADIEN
CANADIAN PATENT APPLICATION**

(13) **A1**

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(71) Demandeur/Applicant:
LEAKOS, MARK A., CA

(72) Inventeur/Inventor:
LEAKOS, MARK A., CA

(54) Titre : METHODE ET DISPOSITIFS AINSI QUE PRODUIT POUR LA PLANTATION D'ARBRES QUI FACILITENT
L'ARROSAGE ET LA SUPPRESSION DES MAUVAISES HERBES

(54) Title: METHOD AND DEVICES AND PRODUCT FOR PLANTING TREES ENABLING EASE OF WATERING AND
SUPPRESSION OF WEEDS



When planting trees it is customary to dig a hole by shovel and sometimes form an earthen border or "tree well" around the tree to enable sufficient water to penetrate the ground deeply around the tree instead of dispersing laterally during subsequent watering. This is difficult work and the border or tree well is prone to wind and water erosion. In addition, weeds must continually be removed.

There is a need for a machine to dig the hole and make the tree well and for a product to maintain the well and to suppress weeds.

The Tree Hole and Well Maker and the Tree Well Form are intended to address these needs.

The Tree Hole and Well Maker (FIGS. 1 + 2) digs a hole and forms the earth into two circular mounds (FIG. 3). The larger interior mound forms the tree well which will contain the water for subsequent watering. The peripheral mound of earth is used to backfill the holding cups (#1 of FIGS. 3, 4 + 5) of the Tree Well Form holding it in place. The Tree Well form acts to maintain the tree well and to suppress weeds.

Claims continued...

mound of earth to hold the form in place.

2. A device^{made of steel} that attaches to a standard auger (said auger attached and powered to a tractor pto. and raised and lowered by a 3-point hitch) which in combination with the auger creates a sloped circular mound of earth draining toward the hole and a secondary smaller circular mound of earth (peripheral to the first) needed to provide ready backfill into a receptacle or rim cup of a molded form for the purpose of holding said form in place.
3. A uniquely shaped form to act as a tree well to hold water and suppress weeds and incorporating an outer cup to accept earth in order to hold itself in place, said form made of plastic, rubber or biodegradable material.

Inventor:
Mark Leakes

Claims: 1. A method of tree planting which simultaneously drills a hole and fashions a tree well and creates an extraneous mound of earth so that: a tree may be planted and subsequently watered without the water running away from the tree, and that a molded form may be laid to maintain the shape and integrity of the well and prevent the growth of weeds and using the peripheral

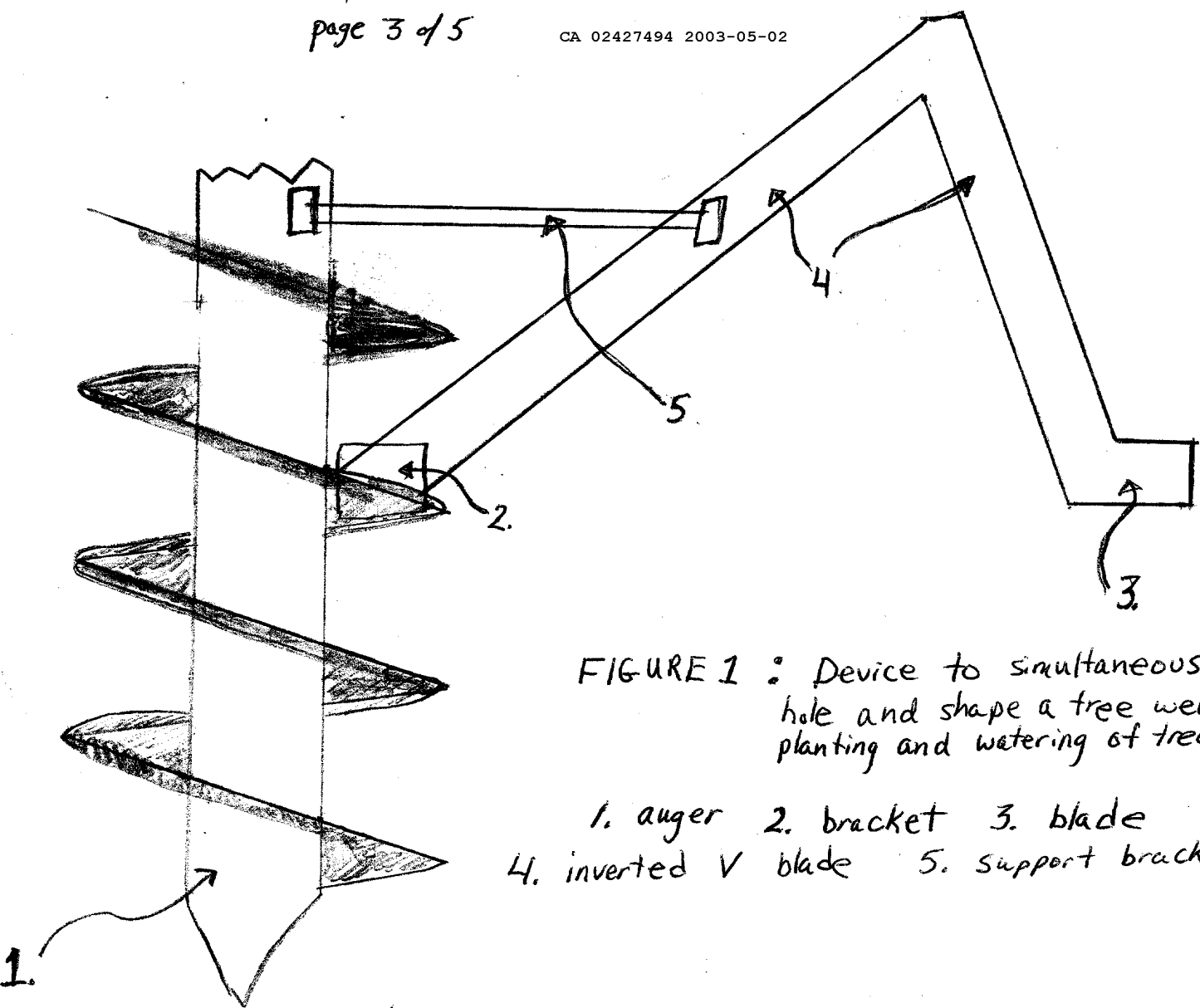


FIGURE 1 : Device to simultaneously dig a hole and shape a tree well for the planting and watering of trees .

1. auger 2. bracket 3. blade
4. inverted V blade 5. support bracket

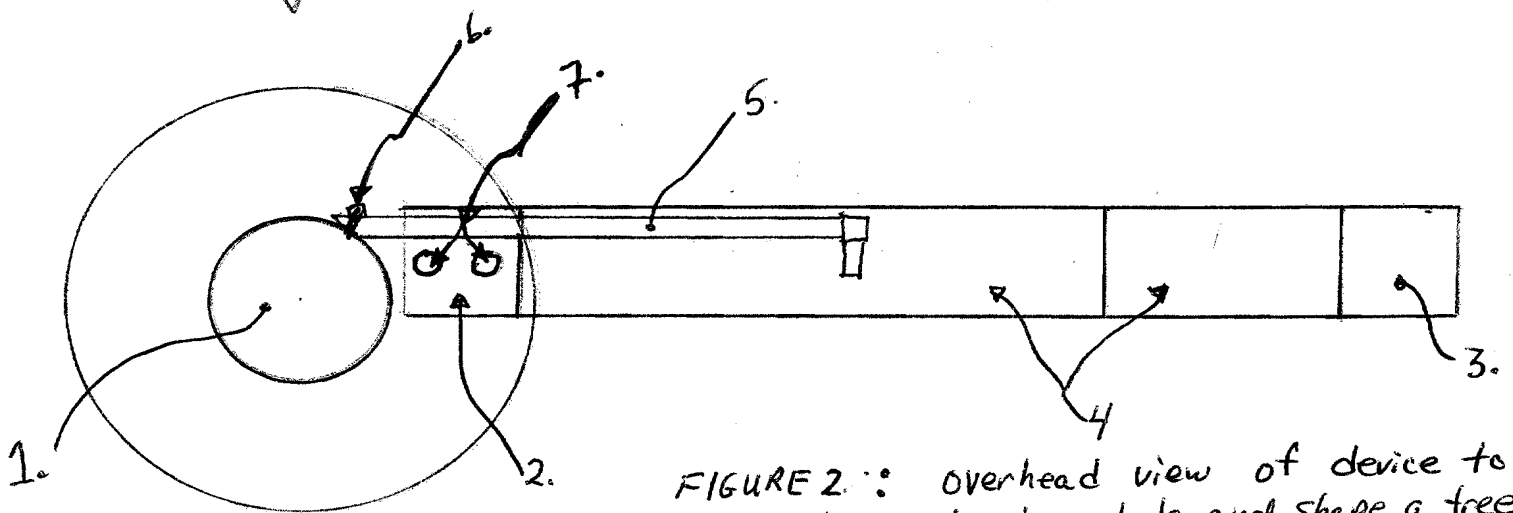


FIGURE 2 : Overhead view of device to simultaneously dig a hole and shape a tree well for the planting and watering of trees.

1. auger 2. bracket 3. blade 4. inverted V blade
5. support bracket 6. bolt 7. bolts.

Inventor:
Mark Leakes

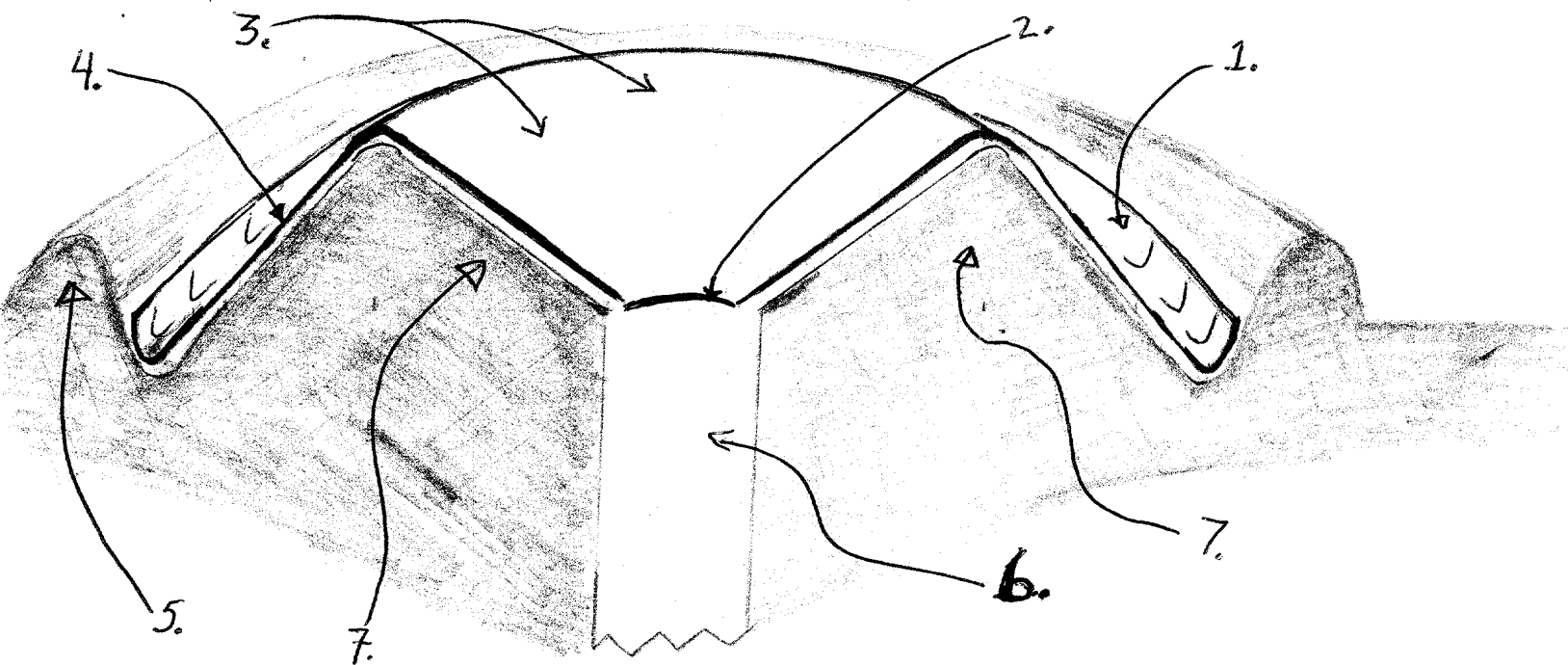


FIGURE 3 : STYLIZED CUTAWAY DIAGRAM SHOWING HOLE AND mounds of earth formed by tree hole and well shaping device with tree well form in place ready to be backfilled with secondary mound of earth.

1. holding cup 2. hole in tree well form 3. sloping sides of tree well form 4. sloping side of tree well form away from hole 5. secondary mound of earth (used to backfill holding cup) 6. hole in ground 7. mound of earth (shaped)

Inventor:
Mark Leekos

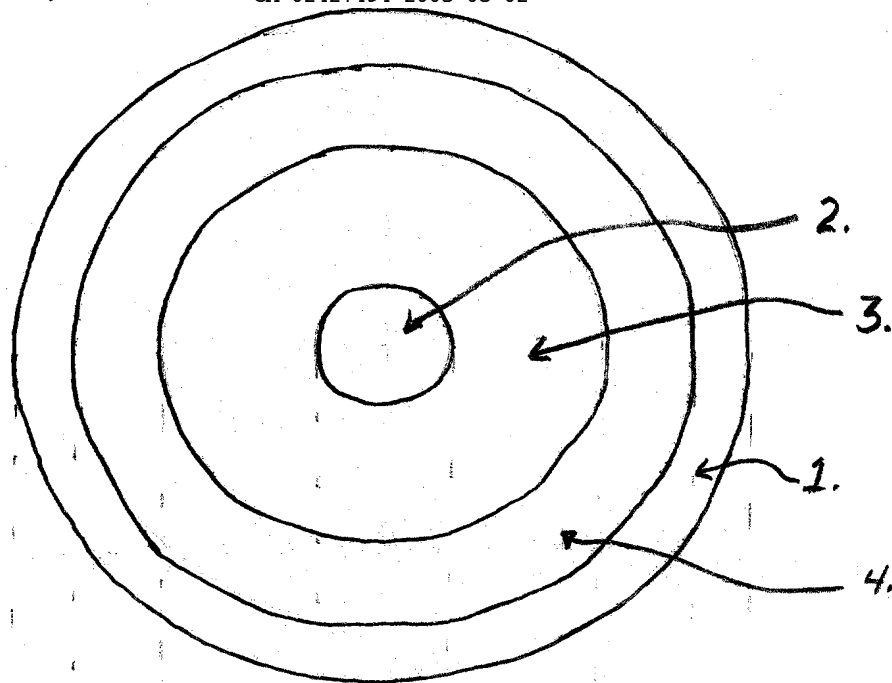


FIGURE 4 : OVERHEAD VIEW OF TREE WELL FORM.

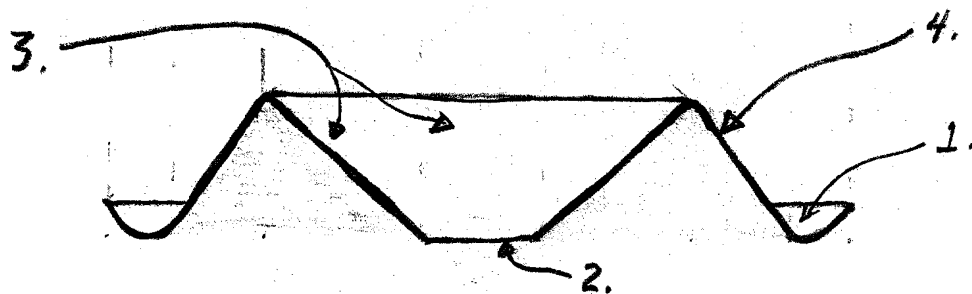


FIGURE 5 : SIDE CUT VIEW OF TREE WELL FORM

1. holding cup (to receive backfilled earth to hold form in place)
2. hole
3. sloping sides towards hole and tree
4. sloping side away from hole.

Inventor:
Mark Lealos.

DERWENT-ACC-NO: 2004-822124

DERWENT-WEEK: 200482

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TITLE: Method for planting tree,
involves simultaneously drilling
hole and fashioning tree well to
create extraneous mound of earth
so that tree might be planted and
subsequently watered without
water running away from tree

INVENTOR: LEAKOS M A

PATENT-ASSIGNEE: LEAKOS M A[LEAKI]

PRIORITY-DATA: 2003CA-2427494 (May 2, 2003)

PATENT-FAMILY:

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PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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INT-CL-CURRENT:

TYPE	IPC DATE
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CIPS A01C11/04 20060101
CIPS A01C5/04 20060101

ABSTRACTED-PUB-NO: CA 2427494 A1

BASIC-ABSTRACT:

NOVELTY - Drilling of a hole and fashioning a tree well are simultaneously performed to create an extraneous mound of earth so that a tree might be planted and subsequently watered without water running away from the tree, and that a molded form might be laid to maintain the shape and integrity of the well, and prevent growth of weeds and use the periphery of the mound of earth to hold the form in place.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) a device made of steel in combination with auger for planting tree; and

(b) a uniquely shaped molded form to act as tree well to hold water suppress weed.

USE - For planting tree.

ADVANTAGE - Enables sufficient water to penetrate the ground deeply around the tree during subsequent watering. Maintains tree well and suppresses growth of weeds.

DESCRIPTION OF DRAWING(S) - The figure shows a device to simultaneously dig a hole and shape a

tree well for planting and watering trees.

Auger (1)

Bracket (2)

Blade (3)

Inverted V-blade (4)

Support bracket (5)

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: METHOD PLANT TREE SIMULTANEOUS
DRILL HOLE FASHION WELL
EXTRANEIOUS MOUND EARTH SO
SUBSEQUENT WATER RUN

DERWENT-CLASS: P11 P13

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: 2004-649385